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4, 7TH MAIN MALLESWARAM, BANGALORE-3

CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-09-04-07**	**Date: 06-09-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore	
Address	:	Yelahanka Sub division, BBMP, Bangalore	
Project Name	:	Improvements to roads and drains at Kamakshamma Layout Eastern side cross roads in Ward no.02 of Yelahanka Sub division.	
Agency	:	Executive Engineer, Yelahanka division, BBMP, Bangalore-64	
Customer's Reference	:	BBMP/EE/(YNK.D)/WO/158/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	04-09-17	
Sample ID No	:	2017-09-04-07/04	
Sample Type	:	JSW	
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.	
Date of test:	:	05-09-17	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	JSW	Fe500	8	0.392	560	684	20.0%	Satisfactory	Satisfactory
2	JSW	Fe500	10	0.612	578	690	20.0%	Satisfactory	Satisfactory

Note:

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Quality Manager

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Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

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TEST REPORT OF PRECAST COVER SLAB

Date: 08-09-17

Lab ID	:	**CP-2017-09-04-07**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore
Address	:	Yelahanka Sub division, BBMP, Bangalore
Project Name	:	Improvements to roads and drains at Kamakshamma Layout Eastern side cross roads in Ward no.02 of Yelahanka Sub division.
Agency	:	Executive Engineer, Yelahanka division, BBMP, Bangalore-64
Customer's Reference	:	BBMP/EE/(YNK.D)/WO/158/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-09-17
Sample ID No	:	2017-09-04-07/05
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	04/09/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.18	1.116	4477	99.6	22.2	20.7	25.9
2	Cover Slab-2	75.49	100.22	1.122	4475	98.1	21.9	20.4	25.5
3	Cover Slab-3	75.50	100.11	1.118	4476	98.4	22.0	20.4	25.6

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

Date: 08-09-17

Lab ID	:	**CP-2017-09-04-07**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore
Address	:	Yelahanka Sub division, BBMP, Bangalore
Project Name	:	Improvements to roads and drains at Kamakshamma Layout Eastern side cross roads in Ward no.02 of Yelahanka Sub division.
Agency	:	Executive Engineer, Yelahanka division, BBMP, Bangalore-64
Customer's Reference	:	BBMP/EE/(YNK.D)/WO/158/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-09-17
Sample ID No	:	2017-09-04-07/06
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	04/09/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.51	165.26	2.954	7933	163.1	20.6	19.1	23.9
2	B	100.53	165.22	2.972	7936	165.2	20.8	20.8	26.0
3	C	100.51	165.25	2.927	7933	164.1	20.7	20.7	25.9

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Yelahanka Sub. Divison
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Yelahanka, Bangalore

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-09-15-02**

Date: 18/09/2017

Customer : Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore

Address : Yelahanka Sub division, BBMP, Bangalore

Project Name : Improvements to roads and drains at Kamakshamma Layout Eastern side cross roads in Ward no.02 of Yelahanka Sub division.

Agency : Executive Engineer, Yelahanka division, BBMP, Bangalore-64

Customer's Reference : BBMP/EE/(YNK.D)/WO/158/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-09-17

Sample ID No : 2017-09-15-02/01

Customer ID : Cement Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/09/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete	M20	11/09/2017	18/09/2017	150.32 X 150.38 X 150.37	22605	8.233	404.6	17.9	18.0
2	Cement Concrete	M20	11/09/2017	18/09/2017	150.28 X 150.25 X 150.31	22580	8.276	415.5	18.4	
3	Cement Concrete	M20	11/09/2017	18/09/2017	150.33 X 150.38 X 150.39	22607	8.245	397.9	17.6	

Note:

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Authorized Signatory
Quality Manager

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/09/2017

Lab ID	:	CP-2017-09-23-04
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore
Address	:	Yelahanka Sub division, BBMP, Bangalore
Project Name	:	Improvements to roads and drains at Kamakshamma Layout Eastern side cross roads in Ward no.02 of Yelahanka Sub division.
Agency	:	Executive Engineer, Yelahanka division, BBMP, Bangalore-64
Customer's Reference	:	BBMP/EE/(YNK.D)/WO/158/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-09-17
Sample ID No	:	2017-09-23-04/01
Customer ID	:	Cement Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/09/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete	M20	19/09/2017	26/09/2017	149.22 X 150.54 X 149.22	22464	8.265	404.3	18.0	18.4
2	Cement Concrete	M20	19/09/2017	26/09/2017	150.65 X 150.34 X 151.32	22567	8.252	410.7	18.2	
3	Cement Concrete	M20	19/09/2017	26/09/2017	151.88 X 150.15 X 150.11	22568	8.254	428.8	19.0	

Note:
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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/10/2017

Lab ID	:	**CP-2017-09-23-04**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore
Address	:	Yelahanka Sub division, BBMP, Bangalore
Project Name	:	Improvements to roads and drains at Kamakshamma Layout Eastern side cross roads in Ward no.02 of Yelahanka Sub division.
Agency	:	Executive Engineer, Yelahanka division, BBMP, Bangalore-64
Customer's Reference	:	BBMP/EE/(YNK.D)/WO/158/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-09-17
Sample ID No	:	2017-09-23-04/02
Customer ID	:	Cement Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/10/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete	M20	19/09/2017	17/10/2017	151.66 X 150.25 X 149.82	22787	8.276	391.9	17.2	17.6
2	Cement Concrete	M20	19/09/2017	17/10/2017	149.22 X 151.29 X 150.54	22575	8.236	408.6	18.1	
3	Cement Concrete	M20	19/09/2017	17/10/2017	150.87 X 150.38 X 150.96	22688	8.222	397.0	17.5	

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Yelahanka, Bangalore

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CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-09-04-07** **Date: 07-09-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore
Address	:	Yelahanka Sub division, BBMP, Bangalore
Project Name	:	Improvements to roads and drains at Kamakshamma Layout Eastern side cross roads in Ward no.02 of Yelahanka Sub division.
Agency	:	Executive Engineer, Yelahanka division, BBMP, Bangalore-64
Customer's Reference	:	BBMP/EE/(YNK.D)/WO/158/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	04-09-17
Sample ID No	:	2017-09-04-07/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	04-09-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	210	210	1.4	98.6	90-100
3	20 mm	2866	3076	20.5	79.5	30-70
4	10 mm	1054	4130	27.5	72.5	10-35
5	4.75 mm	808	4938	32.9	67.1	0-5
6	Pan	62	5000	33.3	67	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-09-04-07** **Date: 07-09-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore
Address	:	Yelahanka Sub division, BBMP, Bangalore
Project Name	:	Improvements to roads and drains at Kamakshamma Layout Eastern side cross roads in Ward no.02 of Yelahanka Sub division.
Agency	:	Executive Engineer, Yelahanka division, BBMP, Bangalore-64
Customer Reference	:	BBMP/EE/(YNK.D)/WO/158/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-09-17
Sample ID No	:	2017-09-04-07/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	04-09-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	266	266	5.3	94.7	90-100
3	10 mm	2760	3026	60.5	39.5	25-55
4	4.75 mm	1780	4806	96.1	3.9	0-10
5	Pan	194	5000	100	0	–

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CIVIL PRO Sig Date BANGALORE

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TEST REPORT OF FINE AGGREGATE

Date: 07-09-17

Lab ID : **CP-2017-09-04-07**

Sample ID No : 2017-09-04-07/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.55	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	6.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Quality Manager

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Date: 07-09-17

Lab ID : CP-2017-09-04-07

Sample ID No : 2017-09-04-07/07

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	200	200	
2	400	202	201	
3	400	201	201	
4	401	200	202	
5	401	200	202	
6	400	201	202	
7	400	201	203	
8	402	201	201	
9	402	202	203	
10	400	202	201	
11	402	201	203	
12	400	201	201	
13	402	202	200	
14	401	201	201	
15	401	203	201	
16	400	202	200	
17	401	203	201	
18	400	201	201	
19	403	201	202	
20	402	201	201	
Average of 20	401	201	201	

Length : ± 5mm
Breadth : ± 3mm
Height : ± 3mm

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(BBMP Ynk. Zn)
Yelahanka, Bangalore

Date: 07-09-17

Lab ID : CP-2017-09-04-07

Sample ID No : 2017-09-04-07/07

COMPRESSIVE STRENGTH:

Sl. No.	Size of Hallow block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	401	200	80200	366.8	4.6	4.6
2	400	202	80800	365.8	4.5	
3	400	201	80400	365.9	4.6	
4	401	200	80200	377.5	4.7	
5	401	200	80200	381.2	4.8	
6	400	201	80400	382.6	4.8	
7	400	201	80400	383.4	4.8	
8	402	201	80802	345.6	4.3	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

	Compressive strength	
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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